

Amendments to the Claims

In this Reply, claims 2 and 5 have been cancelled. Claims 1, 3, 4, and 6-9 are being amended. The following listing of claims replaces all previous versions of the claims in the application.

Listing of Claims

1. (currently amended) ~~Rearing Fly Larvae (maggot) and fly pupa as~~ A method for closed-loop regeneration of food for humans during a long term mission in space food sources for animals and the humans, comprising:

freezing fly eggs in liquid nitrogen;

bringing the frozen fly eggs on the long term mission;

thawing some of the fly eggs in space;

rearing maggots and pupa in space from the thawed fly eggs by feeding the maggots human waste and plant crop waste;

preparing a powder from the maggots that have been reared; and

feeding the maggot powder to the humans as food.

2. (canceled)

3. (currently amended) ~~Rearing maggot as~~ The method defined in claim 1, further comprising using the maggots ~~can be~~ as a

~~carrier of some special ingredients by feeding the maggots with relevant ingredients that crew need, such as vitamins, minerals, electrolytes and antibiotics etc., so the rearing animals will be the carrier for these relevant ingredients too by feeding with those maggot, the crew will get these relevant ingredients from these animal food that the humans need.~~

4. (currently amended) Rearing maggot as space food source
for animal as The method defined in claim 1, the enough fly eggs,
animal eggs, oosperm and placenta be all brought from earth, they
were frozen in liquid nitrogen as the food source, and
can be warmed and hatched for rearing in space, thus achieve safe and
sufficient food source and ingredient storage in long term
mission. The animals could be reproduced by themselves in the space
too. The fly further comprising:

~~_____ rearing and reproduction could be a standby way for~~
~~sudden ease of~~ flies in the event that the fly eggs are lost in
during the long term mission.

5. (canceled)

6. (currently amended) ~~Rearing maggot in space as~~ The
method defined in claim 1, ~~the maggot will be~~ further comprising:

using the maggots, the pupa, and the maggot powder as
feedstuff for poultry, aquatic animals, amphibians, and livestock,
~~these animal bodies and;~~ and

using the poultry, aquatic animals, amphibians,
livestock and their eggs ~~will be the~~ as nourishing food for the
humans in space.

7. (currently amended) ~~Rearing maggot in space as~~ The
method defined in claim 1, ~~the~~ further comprising:

using residues left after rearing the maggots ~~is~~
~~odorless and still rich of nutrients, it can be high grade~~ as
fertilizer for crop plants; ~~the;~~ and

using CO₂ produced from rearing the maggots rearing,
~~could supply to crop plants for~~ to satisfy growth requirements for
the crop plants.

8. (currently amended) ~~Rearing maggot as~~ The method defined
in claim 1, ~~for those food crisis in space or on the earth, such as~~
~~disaster in polar adventure, on the sea or in war,~~ further comprising
rearing the maggots with self-manure could be a way of self-
sufficient food production for life saving to produce food to save
lives when there is a food crisis in space.

9. (currently amended) ~~Rearing maggot and fly pupa as~~ The

method defined in claim 1, ~~the maggot powder, pupa powder and the rearing animals feeding by maggot and pupa, can be manufactured as healthy feed for further comprising:~~

raising animals by feeding the animals the maggots and pupa while alive and by feeding the animals the maggot powder; and

using the animals and the maggot powder as healthy food for the humans to assist in resisting radiation and improving immune abilities ~~ability, not only for human in space, also for human on the earth.. The crop or animal internal organs could be feedstuff for rearing maggot on the earth, some herbal medicine and other ingredients with special function can be added in those feedstuff, or in maggot (pupa) powder for increasing effect. The daily dose for adult is 0.3~1.0 gram of pure maggot (pupa) powder.~~